



Exam Sheet  
Grade-3  
GSW Junior  
Mathematics  
Tournament

April 6

2013

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Grade -3

**DO NOT OPEN UNTIL YOU ARE INSTRUCTED TO DO SO**

1. There are 20 students in Ms. Abney's classroom, 30 in Ms. Bailey's room, and 32 in Ms. Clark's room. What is the total number of students in these 3 rooms?

2. 
$$\begin{array}{r} 545 \\ +323 \\ \hline \end{array}$$

3. What number comes next if you skip count by 3?

33, 36, 39, 42, \_\_\_\_\_

4. Sherry wants to collect 25 seashells. So far she has found 12. How many more does she need?

5. If the time is 3:45, what will the time be in 45 minutes?

6. Write the numeral that has 7 tens, 4 hundreds, 6 thousands, and 8 ones.

7. Which is the smaller number? Choose from:

- A. 9 plus 3
- B. 9 times 3
- C. 9 divided by 3
- D. 9 minus 3
- E. 93

8. Write the numeral 36 thousand, 7 hundred, forty-five.

9. Tracy draws four cards with the numerals 3, 4, 9, 1. What is the largest number that can be formed with these 4 cards?



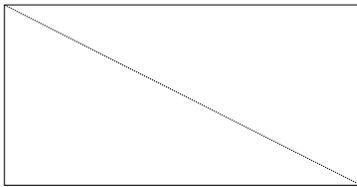
10. Which is a longer time period: the second calendar month, the third calendar month, or the fourth calendar month?

11. Marty has 2 quarters, 2 dimes, 2 nickels, and 2 pennies. How much more money does she need to have 1 dollar?

12.  $\boxed{\phantom{0000}} \times 7 = 77$

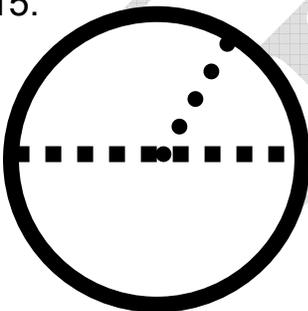
13. You have 28 apples and you give half to Kay, and then you give half of what you have left to Jay. Now how many apples do you have?

14. A rectangular piece of printer paper is folded neatly by creasing it between the opposite corners. What new shapes are formed?



- A. isosceles triangles
- B. equilateral triangles
- C. right triangles
- D. obtuse triangles

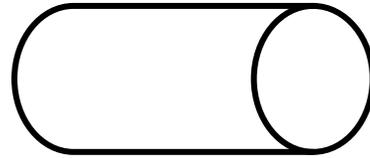
15.



In the figure above which part is the diameter?

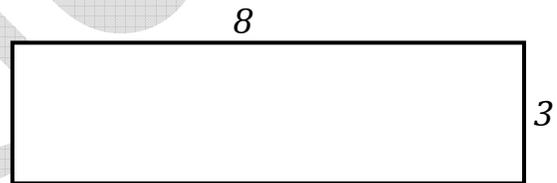
- A. solid
- B. round dotted
- C. square dotted

16. A roll of paper towels most closely resembles which of the following:



- A. sphere
- B. cylinder
- C. cone
- D. rectangular prism

17. Consider the rectangle shown.



Which number sentence can be used to find the perimeter of this rectangle?

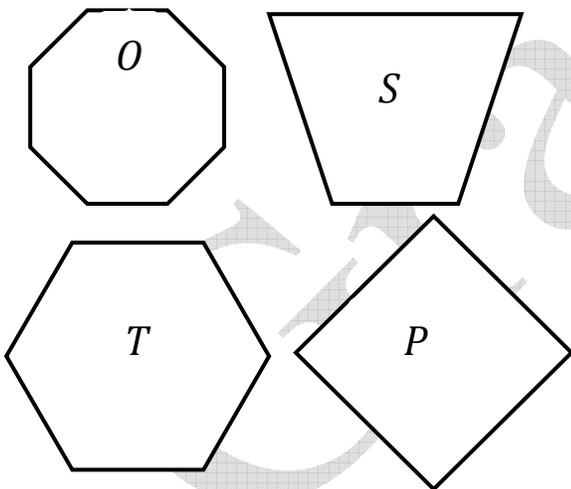
- A.  $8 \times 3 = 24$
- B.  $8 + 3 = 11$
- C.  $2 \times 8 + 2 \times 3 = 22$
- D.  $3 \times 8 + 3 \times 8 = 48$

18. Glenda made a quilt square that was 8 inches along each side. Which computation could be used to find its area?

- A.  $8 + 8 + 8 + 8$
- B.  $8 + 8$
- C.  $(8 \times 8) + (8 \times 8)$
- D.  $8 \times 8$

19. A class of 30 students is planning a field trip. They will go in vans that will carry 8 students. How many vans will be needed?

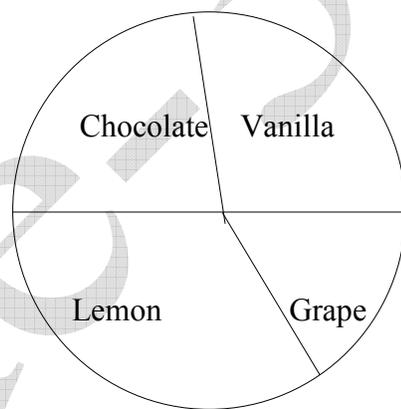
20.



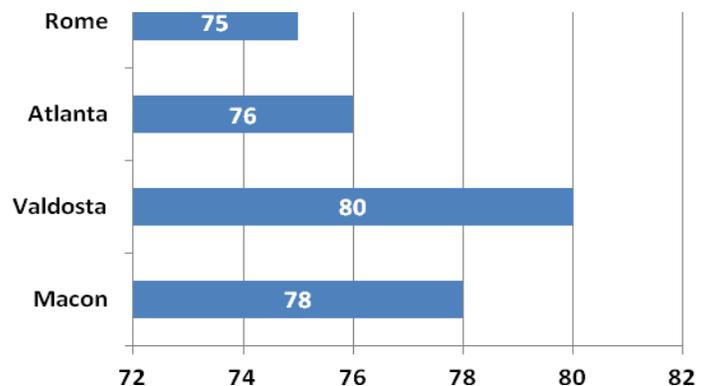
What common English word is spelled by writing the labels of the four figures in this order: hexagon, octagon, square, trapezoid?

21. Which number is 12 more than 72?

22. The flavors in the pictograph represent preferences of students at the local elementary school. Which flavor is preferred by the fewest number of students?



23.



The pictograph shows the average June temperature for 4 Georgia cities. Which city's average June temperature is higher than Rome's but not as high as Macon's?

24. Which number goes in the  to make the number sentence true?

$$18 = 3 \times 5 + \square$$

25. What is the sum:

$$\frac{1}{7} + \frac{2}{7} + \frac{3}{7} =$$

26. There are 24 students in a room and 6 tables. What is the expression that can be used to find out how many students will sit at each table so that there are the same number at each table?

- A.  $24 + 6$
- B.  $24 \times 6$
- C.  $24 \div 6$
- D.  $24 - 6$

27. A hamburger place sold 5,670 burgers in March and 6,794 in April. How many more burgers did they sell in April?

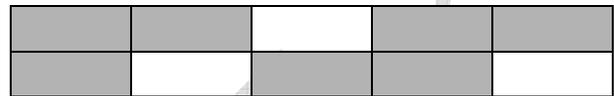
28. How much does the digit 8 represent in the number 18,234?

- A. 80,000
- B. 8,000
- C. 800
- D. 80
- E. 8

29. Jamie has 65 pennies and stacks them in groups of 5. How many stacks of pennies does he get?

- A. 8
- B. 9
- C. 11
- D. 13

30.



What fraction of the table is shaded?

31. Mrs. Smith has a party for 25 guests and she makes 112 cookies. She divides 112 by 25 to see how many cookies each guest will receive. What does the remainder tell her?

- A. the number of cookies each guest receives
- B. the number that she should have made
- C. the number left over that she can save for later
- D. the size of each cookie

32. Math class begins at 8:20am and ends at 9:10am. How many minutes does math class last?

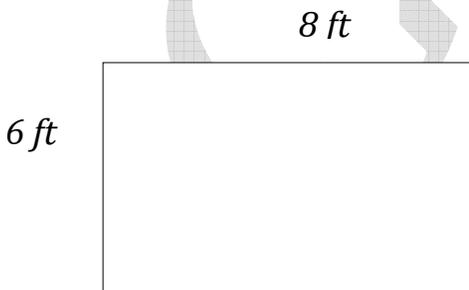
33. A certain number when tripled and then increased by 5 equals 17. What is this number?

34.  $1 + 500 + 7,000 + 80,000 = ?$

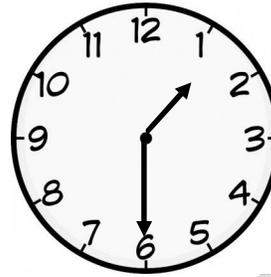
35. What is the best estimate for the length of the trailer of a large tractor-trailer truck?

- A. 50 inches
- B. 50 feet
- C. 50 yards
- D. 50 miles

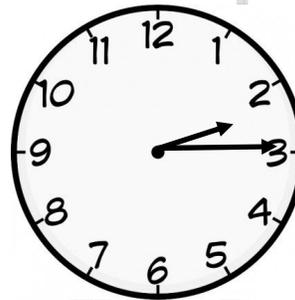
36. What is the area of a rectangular rug that measures 6 ft by 8 ft?



37.



*Clock A*



*Clock B*

A math test began at the time on Clock A and ended at the time on Clock B. How many minutes did the test last?

38. Janice made a rectangular-shaped rug that was 7 ft long and 5 ft wide. Now she wants to add a ribbon around the outside of the rug. How long should this ribbon be?

39. If Q equals the number of sides of a quadrilateral, T equals the number of sides of a triangle, and H equals the number of sides of a hexagon, then what is  $Q + T + H$ ?

40. How many more sides does an octagon have than a hexagon?
41. Peanuts cost \$1.50 per pound and cashews cost \$2.50 per pound. Marcy bought a pound of peanuts and a pound of cashews. She paid \$5.00. How much change did she get back?
42. What number will make this number sentence true:

$$7 + 8 + \boxed{\phantom{00}} = 15$$

## Answers

1. 82
2. 868
3. 45
4. 13
5. 4:30
6. 7,468
7. C (9 divided by 3)
8. 36,745
9. 9431
10. 3rd month (March, or  
31 days)
11. 18 cents (\$0.18)
12. 11
13. 7
14. right triangles
15. C, square dotted
16. B, cylinder
17. C,  $2 \times 8 + 2 \times 3 = 22$
18. D,  $8 \times 8$
19. 4
20. TOPS
21. Rectangle, triangle,  
square and circle
22. Grape
23. Atlanta
24. 3
25.  $\frac{6}{7}$
26. C ( $24 \div 6$ )
27. 1124
28. B. 8000
29. D (13)

30.  $\frac{7}{10}$
31. C
32. 50 min
33. 4
34. 87,501
35. B (50 ft)
36. 46 sq ft
37. 30 min ( $\frac{1}{2}$  hr)
38. 24 ft
39. 13
40. 2
41. \$1.00
42. 0



Exam Sheet  
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Grade -4

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1. What correct number goes in the box?

$$30,000+600+2 = \boxed{\phantom{0000}}$$

2. Ray found that 376 people went to Kipp Museum on Friday, 1002 on Saturday and 307 on Sunday. How many people went to Kipp Museum in all?

3. What is the value of  $\square$  if  $\square + 213 = 426$ ?

4. The price of a DVD is \$19.00 and the price of a CD is \$12.00. How much does it cost if you buy 3 DVDs and 4 CDs?

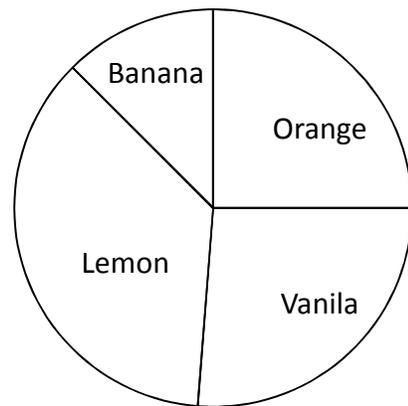
5. In a week, Dr. Cliett reads three hours on Monday, four hours on Tuesday, five hours on Wednesday, five hours on Thursday and two hours on Friday. He reads 50 pages in an hour. How many pages does Dr. Cliett read in a week?

6. What is the value of  $\Delta$  if  $\frac{3}{\Delta} + \frac{5}{\Delta} = 1$ ?

7. Add:

$$\begin{array}{r} 234 \\ 235 \\ \hline 236 \end{array}$$

8. The pictogram is for the preferences of flavor for 400 students. Which flavor is preferred by about 50 students?



9. Savannah is 255 miles from Atlanta. If the average speed of travel is 60 miles an hour, how many minutes would it take to travel from Savannah to Atlanta?
10. If one pound of apples costs \$1.50, how much does it cost for 4 pounds of apples?

11.  $(24 \times 20) + 24 = ?$

12. A number when doubled and then increased by 10 gives you 54. What is the number?

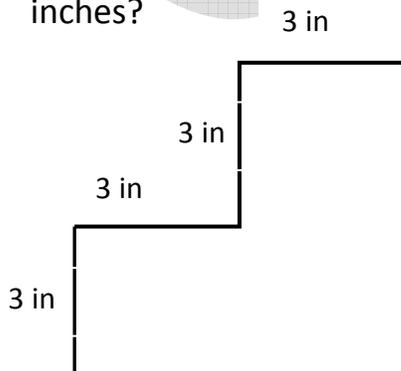
13. A number when tripled and then decreased by 8 gives you 40. What is the number?

14. There are 8 rows of seats in Gugg's Art Theater. Each row has the same number of seats. How many seats are there in each row if there is a total of 96 seats?

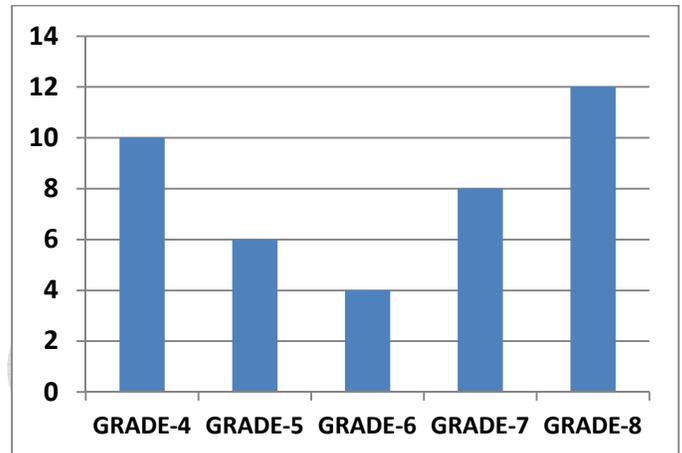
15. What number goes in the box to make the sentence true?

$$(9 - 3) \times 6 = \square \times 2$$

16. What is the area of the enclosed figure in square inches?



17. The following bar graph shows the number of students in a local school from grade 4 to grade 8 who went to a concert.



How many more eighth graders went to the concert than sixth graders?

18.  $3\frac{1}{6} + 5\frac{3}{6} + 5\frac{3}{6} + 2\frac{5}{6} = ?$

19. If a shelf holds 20 books, how many shelves do you need to hold 120 books?

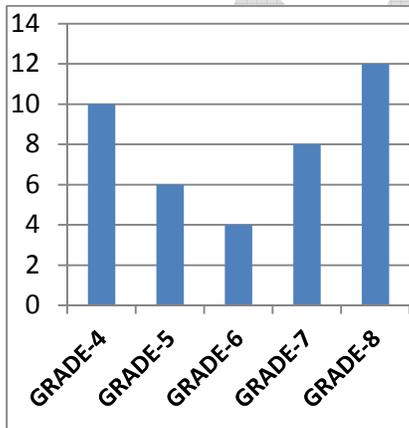
20.  $\frac{3}{12} + \frac{3}{4} = ?$

21. If 4 shelves hold 100 books, how many shelves will hold 250 books?

22. Which is the largest number?

- a) 78 divided by 2
- b) 78 divided by 3
- c) 78 divided by  $\frac{1}{2}$
- d) 78 divided by 4

23. The following bar graph shows the number of students in a local school from grade 4 to grade 8 who went to a concert.



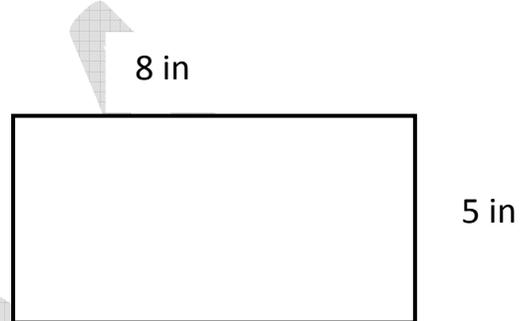
How many total students went to the concert?

24. Write 0.27 as a fraction.

25. Which is longer:

- a) 2 yards
- b) 3 feet
- c) 1 mile

26. Find the perimeter of the rectangle:



27. Movie tickets cost \$4.50 for an adult, and \$3.00 for each child. How much does it cost for 4 adults and 6 children?

28. A bag has 9 red marbles and 5 blue marbles. What fraction of the marbles in the bag are red?

29. A bag has 9 red, 6 black and 5 blue marbles. What fraction of the marbles in the bag are red?

30.  $(6 \times 5) - (26 \div 13) + 9 \times 6 - 20 = ?$

31. John runs on Saturday and Sunday. On Saturday, he runs  $1\frac{1}{2}$  miles. On Sunday, he runs twice as far. How far does John run Sunday?

32. John runs Saturday and Sunday. On Saturday, he runs  $1\frac{1}{2}$  miles. On Sunday, he runs twice as far. How far does John run in the two-day period?

33. There are 15 teams in the GSW math tournament. Each team has 12 students. How many students are in the tournament?

34. Ray needs 4 cups of flour to make a loaf of bread. There are 40 cups of flour in each package. How many loaves of bread can Ray make from 8 packages of flour?



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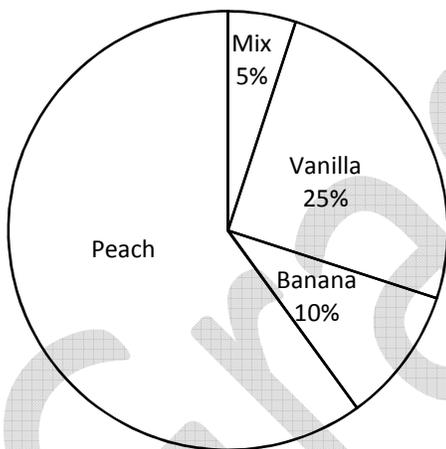
2013

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Grade -5

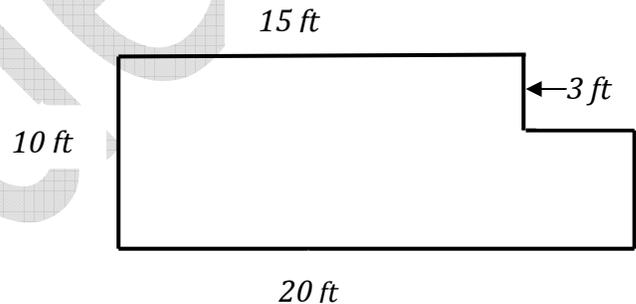
**DO NOT OPEN UNTIL YOU ARE INSTRUCTED TO DO SO**

- 1) What is the sum of the prime numbers in the list: 3, 8, 11, 29, 36
- 2) Ricardo and his two brothers want to buy their dad a gift that costs \$39.99. Each of the three brothers has saved \$12 for the gift. How much more must each brother save if they contribute the same amount?
- 3) The pie chart shown gives the results of a survey of fifth graders about their favorite ice cream. What percent of the students surveyed choose Peach as their favorite flavor of ice cream?



- 4) Jasmine likes to add a spoonful of lemon juice to her tea each morning. About how much lemon juice does Jasmine put in her tea?
  - A) about 3 milliliters
  - B) about 3 liters
  - C) about 3 kiloliters
  - D) about 30 kiloliters

- 5) Add:  $3.141 + 2.718 + 20.13$
- 6)  $148 \times 12 = ?$
- 7) In the number 987.654321, which digit is in the tenths place?
- 8) The perimeter of a square is 24 inches. What is the length of one side of the square?
- 9)  $8 - 6 \div 2 + 5 = ?$
- 10) The diagram shows the living and dining room in Tabitha's house. What is the total area of the two rooms?



- 11) Sandra lives 12 blocks from school. If Sandra has walked  $2\frac{2}{3}$  blocks, how much farther must she walk to get to school?
- 12) A farmer's market sells 8 Georgia peaches for \$6.80. How much does one peach cost?
- 13) Divide and simplify:  $8\frac{1}{3} \div 1\frac{2}{3}$
- 14) What is the mean (average) of the following set of data?  
1, 23, 5, 5, 13, 31

- 15) The table shows how far each family lives from the local library.

Family	Distance from Library
Lopez	$\frac{3}{4}$ mile
Bieber	$\frac{4}{10}$ mile
Green	$\frac{5}{8}$ mile
Kipp	$\frac{9}{12}$ mile

Which two families live the same distance from the library?

- 16) Which is the largest?

$$\frac{6}{5}, \frac{4}{5}, \frac{7}{7}, \frac{5}{4}, \frac{5}{6}$$

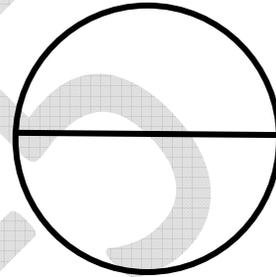
- 17) Sandra is 5 years older than her little sister Tonya, and 2 years younger than her brother Benjamin. Benjamin is 14 years old. How old is Tonya?

- 18) Your favorite toy costs \$25.00. If there is a 6% sales tax when you buy the toy, how much money will you pay in total?

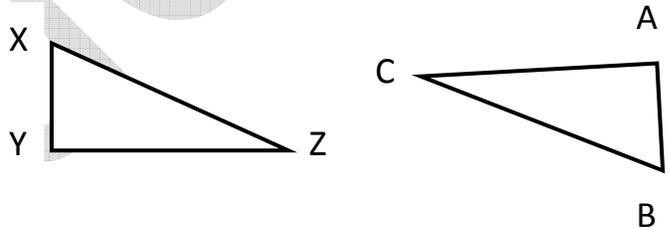
- 19) Last month, it was sunny for 24 of the 30 days. What percentage of the days were sunny last month?

- 20) What percent of 25 is 9?

- 21) A garden has a circular path with a straight path through the center, as shown. If the straight path has a length of 12 feet, then what is the circumference of the circular path? Use  $\pi = 3.14$ .



- 22) Triangles below are congruent. Which line segment in triangle XYZ is congruent to  $AB$ ?



- 23) A restaurant sells cheeseburgers at 6 for \$5. If you and your friends buy 15 cheeseburgers, how much do you pay in total?

- 24) Mr. Cho takes his two children to the movie theater. He buys one adult ticket at \$7.00, two children's tickets for \$4.50 each, and one box of popcorn for \$3.95. If he started with \$20, how much money does he have left?

25) The city sanitation department picks up trash every 6 days. The recycling center picks up bottles every 8 days. They both picked up bottles and trash today. How many days will it be until both pick up trash and bottles on the same day again?

26) Which container can hold the most?

- A) 1-quart container
- B) 1-gallon container
- C) 1-pint container
- D) 1-cup container

27) The local baseball club held a bake sale to raise money. If the sale raised \$124 and sixteen people helped with the sale, then how much did each person sell on average?

28) Zoe's fish tank holds 4.2 gallons of water. Susan's fish tank holds 1.2 times that amount. How much water does Susan's tank hold?

29) A rectangle is 3 inches longer than it is wide. If this rectangle has a width of 5 inches, then what is the area?

30) Suni needs to mail a 1-oz letter. Today is Monday. Based on the table, what is the least amount that she could spend and guarantee it will arrive by Thursday?

Service	Delivery Schedule	Rate (in 2006)
First-Class Mail	varies	\$0.39 for the first ounce, \$0.20 cents for each additional ounce
Priority Mail	2-3 days	\$4.15
Express Mail	next day	\$14.75

31) A pencil costs \$0.39, a pen costs \$0.45, and an eraser costs \$0.50. How much do 5 pencils, 5 pens, and one eraser cost?

32) What is the value of  $\$23 + d$ , if  $d$  is \$5.25?

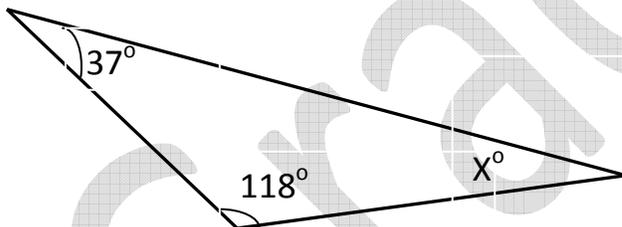
33) What is 0.8925 rounded to the nearest tenth?

34) Sophie had \$50. She spent \$15 on Monday, and a quarter of what remained on Tuesday. How much money did Sophie have after Tuesday?

35) Samantha volunteered  $3\frac{1}{3}$  hours on Wednesday, 5 hours on Thursday, and  $2\frac{5}{12}$  hours on Friday. If her goal is to volunteer 12 hours by the end of the week, how many more hours must she volunteer?

36) Five friends take a photo of themselves. Bob is at the left side of the photo. Andrea is in between Bob and Jane. Erin is between Jane and Andrea. Connie is between Bob and Andrea. Who is the person at the right side of the photo?

37) What is the value  $X$ ?



38) A triangle has base 2 feet and height 18 inches. What is the area in square feet?